PATENT COOPERATION TREATY 6 11 1979 1

BARKER BRETTELL Tourset Selection in the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY 27 AUG 2003 To: BARKER BRETTELL RECEIVED NOTIFICATION OF TRANSMITTAL OF 138 Hagley Road Edgbaston **BIRMINGHAM, B16 9PW GRANDE BRETAGNE EXAMINATION REPORT** (PCT Rule 71.1) RECORDS TEPT SEEN DY. Date of mailing (day/month/year) 25.08.2003 Applicant's or agent's file reference CJS0835 IMPORTANT NOTIFICATION International application No. International filing date (day/month/year)

PCT/GB02/02324

17.05.2002

Priority date (day/month/year)

17.05.2001

Applicant

LUCAS INDUSTRIES LIMITED et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CJS0835				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/GB02/02324			•	International filing date (day/month/year) 17.05.2002 Priority date (day/month/year) 17.05.2001					
	matio 0K31		tent Classification (IPC) or b	ooth national classification and	PC				
	licant CAS		JSTRIES LIMITED et a	al.	•				
1.	Thi Aut	s inte	rnational preliminary exa and is transmitted to the	mination report has been po applicant according to Arti	epared by le 36.	this International P	reliminary Examining		
This REPORT consists of a total of 5 sheets, including this cover sheet.									
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	The	se an	nexes consist of a total of	of sheets.					
3.	This	repo	rt contains indications rel	ating to the following items					
	ı	\boxtimes	Basis of the opinion						
	H		Priority						
	Ш		•	minion with remard to					
	IV		Lack of unity of invention	pinion with regard to novel	y, inventiv	e step and industria	l applicability		
	٧	⊠	Reasoned statement up	ement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; options supporting such statement					
	VI		Certain documents cite						
	VII		Certain defects in the in	nternational application					
	VIII	<u>.</u>	Certain observations or	n the international application	n				
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INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/GB02/02324

I.	Basis	of the	report
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3.

4.

	1. \ t &	Nith regard to the el he receiving Office i and are not annexed	ements of the international application (Replacement sheets which have been furnished in response to an invitation under Article 14 are referred to in this report as "originally filed to this report since they do not contain amendments (Rules 70.16 and 70.17)):
		Description, Pages	
	1	-14	as originally filed
	С	laims, Numbers	
	1.	-23	as originally filed
	D	rawings, Sheets	
	1/	6-6/6	as originally filed
2	. W lar	ith regard to the lan q nguage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
	Th	ése elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	blication of the international application (under Rule 48.3(b)).
		the language of a t Rule 55.2 and/or 5	ranslation furnished for the number of the second
3.	Wit inte	th regard to any nuc ernational preliminar	leotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
			ernational application in written form.
			he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
			ently to this Authority in computer readable form.
٠		The statement that in the international	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that listing has been furn	the information recorded in computer readable forms in the state of
•	The	amendments have	resulted in the cancellation of:
i		the description,	pages:
ı		the claims,	Nos.:
l		the drawings,	sheets:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB02/02324

5. 🛘	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-7,9-23

Inventive step (IS)

Yes: Claims

No: Claims

8

Industrial applicability (IA)

Yes: Claims

1-23

No: Claims

2. Citations and explanations

see separate sheet

Ref. Item V.2

Documents

The following documents cited in the international search report are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: EP-A-0 890 470 (HONDA MOTOR CO LTD) 13 January 1999

D2: US-A-5 913 375 (NISHIKAWA MASAO) 22 June 1999 D3: US-A-5 926 126 (ENGELMAN GERALD H) 20 July 1999

Novelty and Inventive Step

The present application does not meet the requirements of Article 33(2) PCT, because the subject-matter of claim 1 lacks novelty.

Document D1 discloses all the following features which are included in independent claim 1 of the present application (comments and reference signs in brackets refer to D1):

a target object sensing apparatus for a host vehicle, the apparatus comprising (abstract)

a lane detection apparatus provided on the host vehicle which includes an image acquisition means adapted to capture an image of at least a part of the road ahead of the host vehicle (col. 6, lines 10 et. seq., line 33),

a vehicle path estimation means adapted to estimate a projected path for the host vehicle (e.g. col. 7, lines 28 to 54, abstract)

a target vehicle detection means located on the host vehicle which is adapted to identify the position located on the road ahead of the host vehicle (dito, Fig. 4), the position including data representing the distance of the target vehicle from the host vehicle (dito)

first data processing means adapted to determine a target lane (dito, abstract, fig. 3 and 4)

in which the host vehicle will be located when it has travelled along the projected path by distance the target object (col. 9, lines 44 et. seq., fig. 7), second processing means adapted to compare the position of the target vehicle

determined by the target detection means with the position of the target lane to

INTERNATIONAL PRELIMINARY International application No. PCT/GB02/02324 EXAMINATION REPORT - SEPARATE SHEET

provide a processed estimate of the actual position of the target object (dito, col.7, lines 38 et seq., col. 9 lines 43 et seq.)

From fig. 7 in combination with the corresponding part of the description on page 9, line 44 et seq. it is clear for the person skilled in the art, that the calculation means of D1 are able to predict the position of the host vehicle in a future path (in particular lines 51 et seq.).

This implies that also the position of the host vehicle can be estimated, when it has travelled by the distance to the target object.

In D1 the positions of all participants (host and target vehicles) are plotted in a absolute system of coordinates (col. 7 and col. 9) in order to be able to compare distances of objects on real and estimated paths.

Therefore, even a clarified claim would not be lead to a subject-matter which would fulfill the provisions of inventive step.

Furthermore Claims 2 - 23 seem not to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of PCT with respect to novelty and/or inventive step. These claims suggest only slight constructional changes in the device of claim 1 which comes within the scope of the customary practice - with regard to the Documents D1 to D3, followed by persons skilled in the art, especially as the advantages thus achieved can be readily contemplated in advance. Consequently, the subject-matter of the claims 2 to 23 lacks at least inventive step.

Furthermore, the subject-matter of claim 1 is disclosed in documents D2 and D3 as well, reference is made in particular to the passages cited in the search report.